GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-10-IR
Sample I.D. #: MW-10-IR
Sample Time: 1640
Sample Date: 4-10-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 10 ft.
Top of well screen; 10.11 ft. below measuring point
Pump intake set at: 17.86 ft. below measuring point
Casing radius: 2 in.
Well material: (PVC) / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 20.11 (ft)
2) Depth to water prior to purging (2) 15.61 (ft)
3) Length of water column in well: #1 - #2 = (3) 4.5 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1624	15.63	800	200	7.48	0.857	16.3	12.83	6.48	124
1628	15.68	1600	↓	7.43	0.858	3.4	12.24	5.70	125
1632	15.68	2400	↓	7.40	0.858	0.0	11.84	5.54	127
1636	15.68	~~3200~~ 3200		7.38	0.860	0.0	11.57	5.29	128
1640	15.68	~~3600~~ 4000		7.36	0.861	0.0	11.44	5.28	130

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCl

Comments/Observations/Weather Conditions: Cloudy, raining. Rain stopped 1630

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-146
Sample I.D. #: MW-146
Sample Time: 1642
Sample Date: 4-9-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 10 ft.
Top of well screen; 13.04 ft. below measuring point
Pump intake set at: 18.04 ft. below measuring point
Casing radius: 2 in.
Well material: PVC / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 23.04 (ft)
2) Depth to water prior to purging (2) 9.86 (ft)
3) Length of water column in well: #1 - #2 = (3) 13.18 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1626	9.88	800	200	6.99	0.912	3.1	22.05	1.12	105
1630	9.88	1600	↓	6.94	0.922	1.6	21.34	0.89	105
1634	9.88	2400	↓	6.92	0.929	0.9	20.95	0.82	105
1638	9.88	3200		6.91	0.931	0.5	20.77	0.81	105
1642	9.88	4000		6.90	0.929	0.1	20.86	0.78	105

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCL

Comments/Observations/Weather Conditions: Sunny, 70°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-148R
Sample I.D. #: MW-148R
Sample Time: ~~705~~ 1103
Sample Date: 4-10-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 15 ft.
Top of well screen; 9.16 ft. below measuring point
Pump intake set at: 17.84 ft. below measuring point
Casing radius: 2 in.
Well material: PVC / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 24.16 (ft)
2) Depth to water prior to purging (2) 11.52 (ft)
3) Length of water column in well: #1 - #2 = (3) 12.64 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 15 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (_____)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1043	11.55	800	200	7.02	1.78	0.0	14.33	0.79	154
1047	11.55	1600	↓	7.02	1.73	0.0	13.96	0.67	152
1051	11.55	2400	↓	7.01	1.73	0.0	13.81	0.60	150
1055	11.55	3208		7.01	1.72	0.0	13.72	0.57	148
1059	11.55	4000		7.00	1.70	0.0	13.64	0.55	146
1103	11.55	4800		7.00	1.69	0.0	13.63	0.53	145

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCl

Comments/Observations/Weather Conditions: Sunny, wind, 75°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-150
Sample I.D. #: MW-150
Sample Time: 1555
Sample Date: 4-9-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 15 ft.
Top of well screen; 3.62 ft. below measuring point
Pump intake set at: 15.87 ft. below measuring point
Casing radius: 2 in.
Well material: (PVC) / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 18.62 (ft)
2) Depth to water prior to purging (2) 13.12 (ft)
3) Length of water column in well: #1 - #2 = (3) 5.50 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 15 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1535	13.20	800	200	7.09	0.904	4.0	14.88	2.14	95
1539	13.20	1600	↓	7.04	0.919	2.5	14.41	1.49	95
1543	13.20	2400	↓	7.02	0.926	1.8	14.29	1.35	95
1547	13.20	3200		7.01	0.930	1.9	14.12	1.26	95
1551	13.20	4000		7.00	0.931	2.5	14.14	1.22	95
1555	13.20	4800		6.99	0.931	2.4	14.22	1.18	95

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCl

Comments/Observations/Weather Conditions:

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-151
Sample I.D. #: MW-151
Sample Time: ~~1553~~ 1353
Sample Date: 4-9-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 15 ft.
Top of well screen; 3.32 ft. below measuring point
Pump intake set at: 16.35 ft. below measuring point
Casing radius: 2 in.
Well material: (PVC) / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 18.32 (ft)
2) Depth to water prior to purging (2) 14.17 (ft)
3) Length of water column in well: #1 - #2 = (3) 4.15 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1337 ~~1533~~	14.20	800	200	6.13	0.910	1.7	14.97	3.64	168
1337 ~~1537~~	14.20	1600	↓	6.47	0.920	0.0	14.23	3.35	146
1341 ~~1541~~	14.20	2400	↓	6.62	0.925	0.0	13.93	3.24	133
1345 ~~1545~~	14.20	3200		6.69	0.924	0.0	13.86	3.20	126
1349 ~~1549~~	14.20	4000		6.74	0.924	0.0	13.86	3.13	120
1353 ~~1553~~	14.20	4800		6.77	0.924	0.0	13.69	3.12	118

MW-151

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCl

Comments/Observations/Weather Conditions: Sunny, 75°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-152
Sample I.D. #: MW-152 / MS/MSD
Sample Time: 0909
Sample Date: 4-10-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 15 ft.
Top of well screen: 3.32 ft. below measuring point
Pump intake set at: 16.07 ft. below measuring point
Casing radius: 2 in.
Well material: PVC / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 18.32 (ft)
2) Depth to water prior to purging (2) 13.81 (ft)
3) Length of water column in well: #1 - #2 = (3) 4.51 (ft)
4) Volume of water standing in well (4) (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5)
6) Maximum volume to be purged: #4 x #5 = (6) (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
0845	13.85	800	200	6.56	0.608	59.9	15.29	2.95	220
0849	13.85	1600	↓	6.83	0.605	34.8	15.00	2.78	207
0853	13.85	2400	↓	7.00	0.602	20.1	14.94	2.65	195
0857	13.85	3200		7.08	0.600	13.5	14.87	2.54	188
0901	13.85	4000		7.15	0.601	5.1	14.87	2.55	181
0905	13.85	4800		7.18	0.601	2.8	14.85	2.54	176
0909	13.85	5600		7.21	0.601	0.0	14.86	2.47	172

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	9	HCL

Comments/Observations/Weather Conditions: Sunny, 65°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-153 / Dup
Sample I.D. #: MW-153, MW-153 DUP
Sample Time: 1538
Sample Date: 4-10-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 15 ft.
Top of well screen; 5.51 ft. below measuring point
Pump intake set at: 16.43 ft. below measuring point
Casing radius: 2 in.
Well material: PVC / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 20.51 (ft)
2) Depth to water prior to purging (2) 12.35 (ft)
3) Length of water column in well: #1 - #2 = (3) 8.16 (ft)
4) Volume of water standing in well (4) (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5)
6) Maximum volume to be purged: #4 x #5 = (6) (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1510	12.43	600	150	7.23	1.20	29.3	16.81	1.39	120
1514	12.42	1200	↓	7.19	1.24	20.2	15.66	0.98	118
1518	12.42	1800	V	7.17	1.29	22.6	15.21	0.82	116
1522	12.42	2400		7.16	1.32	25.2	15.19	0.74	115
1526	12.42	3000		7.15	1.33	26.3	15.06	0.71	114
1530	12.42	3600		7.14	1.36	31.0	15.01	0.65	114
1534	12.42	4200		7.14	1.36	31.8	14.89	0.63	113
1538	12.42	4800		7.14	1.38	32.0	14.90	0.60	113

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3/3	HCL

Comments/Observations/Weather Conditions: Sunny, 80°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-154
Sample I.D. #: MW-154
Sample Time: 0843
Sample Date: 4-9-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 15 ft.
Top of well screen; 5.35 ft. below measuring point
Pump intake set at: 17.14 ft. below measuring point
Casing radius: 2 in.
Well material: (PVC) / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 20.35 (ft)
2) Depth to water prior to purging (2) 13.93 (ft)
3) Length of water column in well: #1 - #2 = (3) 6.42 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
0819	14.00	800	200	6.70	1.38	0.0	11.94	3.41	146
0823	14.00	1600	↓	6.99	1.38	0.0	11.70	3.17	124
0827	14.00	2400	↓	7.10	1.38	0.0	11.63	3.08	117
0831	14.00	3200		7.18	1.38	0.0	11.59	2.99	111
0835	14.00	4000		7.24	1.39	0.0	11.59	2.85	108
0839	14.00	4800		7.29	1.39	0.0	11.55	2.73	106
0843	14.00	5600		7.31	1.39	0.0	11.50	2.70	104

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40 mL	VOA	3	HCl

Comments/Observations/Weather Conditions: Cloudy, 55°, Water clear.

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-156
Sample I.D. #: MW-156
Sample Time: 1005
Sample Date: 4-10-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 15 ft.
Top of well screen; 3,22 ft. below measuring point
Pump intake set at: 15,28 ft. below measuring point
Casing radius: 2 in.
Well material: PVC / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 18,22 (ft)
2) Depth to water prior to purging (2) 12,33 (ft)
3) Length of water column in well: #1 - #2 = (3) 5,89 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
0945	12,35	800	200	7.20	0,884	0,0	14,97	1,15	161
0949	12,35	1600	↓	7,20	0,882	0,0	14,00	0,82	159
0953	12,35	2400	↓	7,20	0,871	0,0	13,76	0,81	158
0957	12,35	3200		7,21	0,861	0,0	13,47	0,89	156
1001	12,35	4000		7,21	0,856	0,0	13,34	0,95	155
1005	12,35	4800		7,21	0,852	0,0	13,34	0,97	154

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCL

Comments/Observations/Weather Conditions: Cloudy, 70°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-163
Sample I.D. #: MW-163
Sample Time: 1430
Sample Date: 4-10-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 10 ft.
Top of well screen; 9.16 ft. below measuring point
Pump intake set at: 15.57 ft. below measuring point
Casing radius: 2 in.
Well material: (PVC) / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 19.16 (ft)
2) Depth to water prior to purging (2) 11.98 (ft)
3) Length of water column in well: #1 - #2 = (3) 7.18 (ft)
4) Volume of water standing in well (4) (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5)
6) Maximum volume to be purged: #4 x #5 = (6) (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1414	12.48	600	150	7.18	0.985	0.0	17.74	6.13	128
1418	12.58	1200	↓	7.16	0.995	0.0	17.60	5.92	128
1422	12.60	1800	↓	7.15	0.998	0.0	17.47	5.90	128
1426	12.60	2400		7.14	0.997	0.0	17.38	5.79	128
1430	12.61	~~3200~~ 3000		7.14	1.00	0.0	17.17	5.79	127

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCL

Comments/Observations/Weather Conditions: Cloudy,

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-164
Sample I.D. #: MW-164
Sample Time: 1455
Sample Date: 4-9-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 10 ft.
Top of well screen; 14.69 ft. below measuring point
Pump intake set at: 21.85 ft. below measuring point
Casing radius: 2 in.
Well material: (PVC) / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 24.69 (ft)
2) Depth to water prior to purging (2) 19.00 (ft)
3) Length of water column in well: #1 - #2 = (3) 5.69 (ft)
4) Volume of water standing in well (4) (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5)
6) Maximum volume to be purged: #4 x #5 = (6) (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Discharge time: 5 (sec) Pressure: 18 20 (psi) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1431	19.02	800	200	7.02	0.985	0.8	18.06	1.00	97
1435	19.02	1600	↓	7.01	0.999	0.4	17.06	0.74	94
1439	19.02	2400	↓	7.00	1.0	0.0	17.06	0.63	91
1443	19.02	3200		7.00	0.992	0.0	17.39	0.57	89
1447	19.02	4000		6.99	0.992	0.0	17.30	0.54	86
1451	19.02	4800		6.99	0.992	0.0	17.15	0.51	84
1455	19.02	5600		6.99	0.992	0.0	17.20	0.50	82

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCL

Comments/Observations/Weather Conditions: Sunny, 75°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-165S
Sample I.D. #: MW-165S
Sample Time: 0943
Sample Date: 4-9-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 10 ft.
Top of well screen; 9.42 ft. below measuring point
Pump intake set at: 16.90 ft. below measuring point
Casing radius: 2 in.
Well material: PVC / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 19.42 (ft)
2) Depth to water prior to purging (2) 14.37 (ft)
3) Length of water column in well: #1 - #2 = (3) 5.05 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
0923	14.42	800	200	7.32	1.47	23.3	9.38	1.66	43
0927	14.42	1600	↓	7.25	1.45	10.8	8.74	0.82	12
0931	14.42	2400	↓	7.23	1.43	7.8	8.56	0.69	0
0935	14.42	3200		7.23	1.41	0.0	8.50	0.61	-7
0939	14.42	4000		7.24	1.40	0.0	8.56	0.59	-11
0943	14.42	4800		7.25	1.38	0.0	8.49	0.56	-17

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCL

Comments/Observations/Weather Conditions: Water initially red/orange, allowed to purge and clear up

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-165D
Sample I.D. #: MW-165D
Sample Time: 1039
Sample Date: 4-9-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 5 ft.
Top of well screen; 41.23 ft. below measuring point
Pump intake set at: 43.73 ft. below measuring point
Casing radius: 2 in.
Well material: PVC / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 46.23 (ft)
2) Depth to water prior to purging (2) 14.16 (ft)
3) Length of water column in well: #1 - #2 = (3) 32.07 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 23 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1011	14.25	800	200	7.37	1.09	7.88	11.78	1.48	-25
1015	14.25	1600	↓	7.35	1.15	6.5	11.77	0.91	-39
1019	14.25	2400	↓	7.35	1.18	6.1	11.86	0.73	-47
1023	14.25	3200		7.35	1.19	3.9	11.91	0.66	-50
1027	14.25	4000		7.35	1.20	3.6	11.99	0.61	-53
1031	14.25	4800		7.35	1.20	0.1	12.04	0.56	-56
1035	14.24	5600		7.35	1.21	0.3	12.09	0.53	-57
1039	14.24	6400		7.35	1.21	0.0	12.13	0.52	-58

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCL

Comments/Observations/Weather Conditions: Sunny, 65°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-1665
Sample I.D. #: MW-1665
Sample Time: 1131
Sample Date: 4-9-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 10 ft.
Top of well screen: 8.86 ft. below measuring point
Pump intake set at: 16.94 ft. below measuring point
Casing radius: 2 in.
Well material: PVC / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 18.86 (ft)
2) Depth to water prior to purging (2) 15.02 (ft)
3) Length of water column in well: #1 - #2 = (3) 3.84 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Discharge time: 5 (sec) Pressure: 10 (psi) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1111	15.10	800	200	7.43	1.03	0.5	15.43	1.20	47
1115	15.10	1600	↓	7.37	1.03	0.0	15.16	0.83	50
1119	15.10	2400	↓	7.33	1.03	0.0	15.07	0.67	51
1123	15.10	3200		7.32	1.03	0.0	15.15	0.62	51
1127	15.10	4000		7.31	1.03	0.0	15.24	0.59	52
1131	15.10	4800		7.31	1.03	0.0	15.27	0.59	52

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCl

Comments/Observations/Weather Conditions: Sunny, 70

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-166D
Sample I.D. #: MW-166D
Sample Time: 1243
Sample Date: 4-9-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 5 ft.
Top of well screen; 44.32 ft. below measuring point
Pump intake set at: 46.82 ft. below measuring point
Casing radius: 2 in.
Well material: (PVC) / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 49.32 (ft)
2) Depth to water prior to purging (2) 14.80 (ft)
3) Length of water column in well: #1 - #2 = (3) 34.52 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Discharge time: 5 (sec) Pressure: 23 (psi) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1203	14.83	800	200	7.57	0.768	124	19.82	1.38	-61
1207	14.83	1600	↓	7.57	0.784	86.7	19.15	0.82	-70
1211	14.83	2400	↓	7.58	0.797	85.3	18.54	0.77	-75
1215	14.83	3200		7.58	0.804	46.5	18.34	0.66	-77
1219	14.83	4000		7.59	0.813	29.4	17.96	0.55	-79
1223	14.83	4800		7.59	0.815	21.9	18.03	0.51	-81
1227	14.83	5600		7.59	0.818	18.0	17.78	0.49	-82
1231	14.83	6400		7.59	0.820	14.5	17.66	0.48	-83
1235	14.83	7200		7.60	0.817	9.4	17.88	0.46	-84
1239	14.83	8000		7.60	0.819	6.2	17.75	0.45	-85
1243	14.83	8800		7.60	0.817	2.1	17.69	0.45	-86

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCl

Comments/Observations/Weather Conditions: Sunny, 70°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-167D
Sample I.D. #: MW-167D
Sample Time: 1202
Sample Date: 4-10-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 5 ft.
Top of well screen; 25.65 ft. below measuring point
Pump intake set at: 28.15 ft. below measuring point
Casing radius: 2 in.
Well material: (PVC) / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 30.65 (ft)
2) Depth to water prior to purging (2) 18.00 (ft)
3) Length of water column in well: #1 - #2 = (3) 12.65 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 23 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1142	18.03	800	200	7.25	1.32	0.5	17.79	0.99	22
1146	18.03	1600	↓	7.22	1.33	3.6	17.27	0.63	-10
1150	18.03	2400	↓	7.20	1.33	1.3	17.17	0.52	-21
1154	18.03	3200		7.19	1.33	0.0	17.27	0.45	-29
1158	18.03	4000		7.19	1.33	0.0	17.22	0.43	-32
1202	18.03	4800		7.19	1.34	0.0	17.13	0.41	-34

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCl

Comments/Observations/Weather Conditions: Sunny, 75°

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.

GROUND WATER SAMPLING
FIELD DATA FORM

Site: Genuine Parts
Location: 700 North Olin, Indianapolis, IN
Job #: 2125641E

Well #: MW-173
Sample I.D. #: MW-173
Sample Time: 1321
Sample Date: 4-10-13

Personnel Present During Sampling:
Matt Hennessy, ENVIRON

Well/Purging Information:

Purging method: Bladder Pump
Sampling method: Low-Flow
Tubing material: LDPE
Screen Length: 10 ft.
Top of well screen; 7.34 ft. below measuring point
Pump intake set at: 15.39 ft. below measuring point
Casing radius: 2 in.
Well material: PVC / #316 SS / Galv. Steel
Other:

1) Well depth (from top of measuring point) (1) 17.34 (ft)
2) Depth to water prior to purging (2) 13.43 (ft)
3) Length of water column in well: #1 - #2 = (3) 3.91 (ft)
4) Volume of water standing in well (4) _____ (gal)
multiply #3 by 0.1632 for 2" ID and 0.0408 for 1" ID wells.
(Required for well volume purging approach only)
5) Number of purge volumes required (5) _____
6) Maximum volume to be purged: #4 x #5 = (6) _____ (gal)

Bladder Pump Controller Settings (if used): Recharge time: 10 (sec) Pressure: 10 (psi)
Discharge time: 5 (sec) Cycles per minute: 4

Stabilization:

Time	Depth to Water (ft)	Volume Pumped (mL)	Pumping Rate (mL/min)	pH	Conductance (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)
1241	13.45	800	200	6.59	0.745	14.4	17.33	2.70	202
1245	13.45	1600	↓	6.86	0.747	13.7	16.52	2.56	187
1249	13.45	2400	↓	7.00	0.756	15.8	16.24	2.57	176
1253	13.45	3200		7.08	0.758	15.2	16.09	2.57	168
1257	13.45	4000		7.14	0.765	17.7	15.87	2.61	161
1301	13.45	4800		7.18	0.769	14.1	15.71	2.58	155
1305	13.45	5600		7.21	0.773	12.6	15.70	2.56	150
1309	13.45	6400		7.23	0.776	9.2	15.66	2.51	146
1313	13.45	7200		7.25	0.777	11.7	15.55	2.53	143
1317	13.45	8000		7.27	0.779	5.5	15.48	2.53	140
1321	13.45	8800		7.28	0.781	3.1	15.46	2.51	138

Sample Parameter	Sample Volume	Bottle Type	Number of Bottles	Preservation/Prep
VOC	40mL	VOA	3	HCl

Comments/Observations/Weather Conditions: Partly Sunny, 75° Equipment blank taken after decon

Low Flow Sampling: Well purge flow rate of approximately 0.5L/min or less. Collect in-line water quality measurements and depth to water measurements every 3 to 5 minutes. If excessive drawdown (>0.5 ft.), reduce purge rate (0.2 L/min). Stabilization with three successive readings of ± 0.1 pH, ±3% conductivity, ±10% temperature, turbidity, and DO. Disconnect in-line water quality meter prior to sampling.